

**DOCKET NO. 4770  
SIXTH SET OF DATA REQUESTS OF THE  
DIVISION OF PUBLIC UTILITIES AND CARRIERS TO  
NATIONAL GRID**

**January 3, 2018**

**Meters**

- 6-1. Please provide a count of the number of electric meters currently in service. Of the electric meters currently in service, please provide:
- a. The number of meters by rate class.
  - b. The number of meters by rate class that utilize automated meter reading (AMR) technology.
  - c. The number of meters by rate class that do not utilize AMR technology, specifying the meter type.
  - d. The number of meters by rate class, if any, that are capable of recording time-of-use consumption readings if the Commission approved hourly time-of-use kilowatt-hour rate design.
  - e. The number of meters by rate class, if any, that are capable of recording “real time” time-of-use consumption readings.
  - f. If the number of meters currently in service materially differs from the number of meters in service during the historical test year, please also provide the number of meters in service during the test year as requested in (a) through (e) above.

**Response can be found in Book 1 part 1 on Bates page(s) 1-10.**

- 6-2. Of the electric meters currently in service, please identify the number of meters by year of installation, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 11-24.**

- 6-3. Please state the average cost per electric meter by vintage year, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 25-29.**

- 6-4. Of the electric meters currently in service, please identify the number of meters, if any, by rate class that are fully depreciated.

**Response can be found in Book 1 part 1 on Bates page(s) 30-34.**

- 6-5. Please state the dollar amount reflected in rate base, as of the end of the historical test year, for all electric meters, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 35-36.**

- 6-6. Please describe the Company's policy for replacing electric meters.

**Response can be found in Book 1 part 1 on Bates page(s) 37.**

- 6-7. Please state how many electric meters the Company is forecasting will be replaced during the rate year.

**Response can be found in Book 1 part 1 on Bates page(s) 38.**

- 6-8. Please state the number of electric meters that have been replaced during the last five years, by year. Of those meters replaced, please indicate (i) the number that were replaced because they no longer were functional and (ii) the number that were replaced that were still functional but replaced in accordance with governing Company policy or other reasons.

**Response can be found in Book 1 part 1 on Bates page(s) 39.**

- 6-9. Has the Company considered purchasing so-called hybrid electric meters that are capable of both utilizing AMR technology and being utilized with advanced metering if and when the Company installed advanced meter infrastructure (AMF)? If so, please explain the Company's decisions with respect to this option. If not, please explain why not.

**Response can be found in Book 1 part 1 on Bates page(s) 40.**

- 6-10. Please provide a count of the number of gas meters currently in service. If the number of meters currently in service differs from the number of meters in service during the historical test year, please also provide the number of meters in service during the test year. Of the gas meters currently in service, please provide:

- a. The number of meters by rate class.
- b. The number of meters by rate class that utilize automated meter reading (AMR) technology.
- c. The number of meters by rate class that do not utilize AMR technology, specifying the meter type.
- d. The number of meters by rate class, if any, that are capable of recording time-of-use consumption readings.
- e. The number of meters by rate class, if any, that are capable of recording real time time-of-use consumption readings.
- f. If the number of meters currently in service materially differs from the number of meters in service during the historical test year, please also provide the number of meters in service during the test year as requested in (a) through (e) above.

**Response can be found in Book 1 part 1 on Bates page(s) 41-45.**

- 6-11. Of the gas meters currently in service, please identify the number of meters by year of installation, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 46-66.**

- 6-12. Please state the average cost per electric meter by vintage year, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 67-70.**

- 6-13. Of the gas meters currently in service, please identify the number of meters, if any, by rate class that are fully depreciated.

**Response can be found in Book 1 part 1 on Bates page(s) 71-74.**

- 6-14. Please state the dollar amount reflected in rate base, as of the end of the historical test year, for all gas meters, by rate class.

**Response can be found in Book 1 part 1 on Bates page(s) 75-76.**

- 6-15. Please describe the Company's policy for replacing gas meters.

**Response can be found in Book 1 part 1 on Bates page(s) 77.**

- 6-16. Please state how many gas meters the Company is forecasting will be replaced during the rate year.

**Response can be found in Book 1 part 1 on Bates page(s) 78.**

- 6-17. Please state the number of gas meters that have been replaced during the last five years, by year. Of those meters replaced, please indicate (i) the number that were replaced because they no longer were functional and (ii) the number that were replaced that were still functional but replaced in accordance with governing Company policy or other reasons.

**Response can be found in Book 1 part 1 on Bates page(s) 79.**

- 6-18. Please state whether AMF is being considered for deployment in any of the other jurisdictions in which National Grid has electric distribution affiliates. If so, please explain the status of any proceedings or discussions taking place in which AMF is being considered.

**Response can be found in Book 1 part 1 on Bates page(s) 80.**

- 6-19. Please provide copies of any studies that have been conducted by National Grid, if any, in which the deployment of AMF was evaluated.

**Response can be found in Book 1 part 1 on Bates page(s) 81 to Book 1 part 2 on Bates page(s) 300.**